**Seán McElroy**

Mobile: 086 846 9519 | Email: [seanpetermcelroy@gmail.com](mailto:seanpetermcelroy@gmail.com)

**Profile:**

I am recent Graduate in Business Computing at TUD, receiving a First-Class Honours Degree. I have a keen interest in object-oriented programming. I am looking for an exciting role in software development where I can add real value to the business.

**Education:**

1. **– 2020 Technology University Dublin**

[Bachelor of Science (Hons) Business Computing](http://www.dit.ie/studyatdit/undergraduate/programmescourses/allcourses/businesscomputingdt354.html.)

First class honours degree. Modules included:

|  |  |  |  |
| --- | --- | --- | --- |
| **Year 1** | **Year 2** | **Year 3** | **Year 4** |
| Object orientated Software development.  Statistics.  Financial Accounting.  Multimedia.  Marketing.  Management principles.  Quantitative Methods.  Problem Solving and Design.  Languages:  Java, HTML, CSS | Algorithms and Data Structures.  Object Orientated. software Development.  Databases.  Finance.  Inferential statistics.  Management accounting.  Organisational behaviour.  Supply chain Management.  Languages:  Java, C | Business Modelling.  Dynamic Programming.  Web development.  Enterprise Database Systems.  Project Management  Internship:  MyComplianceOffice - Business Analyst Intern.  Languages:  Java, Python, SQL | Distributed Systems.  Mobile Application Development.  Software Patterns.  Strategic Management.  Software Quality Assurance.  FYP.  Languages:  Java, Javascript, SQL, CSS, HTML |

**2010-2016 St Peters College Dunboyne**

Leaving Cert: 425 points (Hons Math)

**Skills:**

* Programming languages: Python, Javascript, Java, C, HTML, CSS, SQL
* Design software skills: Adobe premiere pro. Adobe XD
* I have strong presentation skills, which have improved from my video editing and podcasting experience.
* Working in groups, for projects in college and during my internship have enhanced my communication skills and ability to work in teams.

**Projects:**

**MyMedicineManager – Final Year Project**

This was an application available on both android and as a web app.

The application was developed to improve the current experience getting prescription medication.

The app allowed a patient to take a photo of their prescription and send it to a pharmacy of their choice. This pharmacy could then prepare the medication and update the status so the patient is able follow the status of their prescription and once the prescription was ready for pick up the patient would get a text notification. In addition to the technology stack given below, during my project I made use of: Scrum, JavaScript, Maven, Github, android studio, Firebase, Google Maps and Twilio.

**Technology stack**

* Pharmacy webapp - React JS
* Patient mobile app - Android Java
* Shared backend API - Spring Boot
* Database - mySQL

**SeanyMcSnakeGame.ninja**

This is a recreation of the first mobile phone game I ever played. I built this game using React JS as a web browser game. I was able to implement the game using a Linked List. This project improved my skills manipulating data structures as well using functional components with Hooks in React.

**PaConnorsGFC.com**

This is a web application I developed for use by my friends. Was built with ReactJS, hosted by AWS Amplify. It is connected to firebase real-time database as well as Firebase Storage for storing images. The website contains player stats and stores planned events and has an event countdown timer.

**Work Experience:**

**Jan 2021-Current – Sonitus Systems – Software Engineer**

I'm currently working on connecting IOT sensors to the Sonitus' cloud, this involves handling incoming MQTT messages, storing those messages in a NoSQL database, and visualizing the data to Sonitus staff with Python libraries and a Jupyter notebook. This has involved learning many AWS services to implement a serverless solution for IoT. I have also automated the user acceptance testing of the Sonitus web platform with Python and deployed it DockerHub, for easy setup for other members.

**Jan 2019-July 2019 – MyComplianceOffice - Business Analyst Intern**

Duties included:

* Project management using Scrum
* Product ownership.
* I was product owner of a number of projects working with teams in an agile environment.

**July 2015 - Department of Agriculture - Video production**

I edited raw video footage to create a final video used to train veterinary surgeons to diagnose foot and mouth disease using adobe premiere pro.

**Interests and hobbies:**

**Brazilian Jiu Jitsu**

* Go training a few times a week with people from all walks of life. (Before Covid)
* I like Jiu Jitsu because it combines problem solving and athletic ability.
* Currently train at home with weights.

**Video Editing and Designing in general**

* I enjoy learning new features within the adobe packages.

***References ­available on request***